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L2	2	apply\$4 same quer\$4 same template\$1 same customer\$1 same record\$4 same match\$4 same (database\$1 db\$1 (data adj base\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/07 08:16
L3	31	access\$4 same value\$1 same field\$1 same customer\$1 same record\$1 same template\$1 same (database\$1 db\$1 (data adj base\$1)) same table\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/07 08:18
L4	2	access\$4 same value\$1 same field\$1 same customer\$1 same record\$1 same template\$1 same (database\$1 db\$1 (data adj base\$1)) same table\$1 same quer\$4 same against\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/07 08:18


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Relevance s

1 [Shape-based retrieval and analysis of 3D models](#)

 Thomas Funkhouser, Michael Kazhdan
 August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**
Publisher: ACM Press

 Full text available: [pdf\(12.56 MB\)](#)

 Additional Information: [full citation](#), [abstract](#)

Large repositories of 3D data are rapidly becoming available in several fields, including mechanical CAD, molecular biology, and computer graphics. As the number of 3D models grows, there is an increasing need for computer algorithms to help people find the interesting ones and discover relationships between them. Unfortunately, text-based search techniques are not always effective for 3D models, especially when queries are geometric in (e.g., find me objects that fit into thi ...

2 [Storing and querying XML data using denormalized relational databases](#)

 Andrey Balmin, Yannis Papakonstantinou
 March 2005 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 14 Issue 1

Publisher: Springer-Verlag New York, Inc.

 Full text available: [pdf\(397.97 KB\)](#)

 Additional Information: [full citation](#), [abstract](#), [citations](#)

XML database systems emerge as a result of the acceptance of the XML data model. Recent works have followed a promising approach of building XML database management systems on underlying RDBMS's. Achieving query processing performance reduces to two questions: (i) How should the XML data be decomposed into data that stored in the RDBMS? (ii) How should the XML query be translated into an efficient plan that sends one or more queries to the underlying RDBMS and combines the data ...

3 [Fast detection of communication patterns in distributed executions](#)

 Thomas Kunz, Michiel F. H. Seuren
 November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research CASCON '97**
Publisher: IBM Press

 Full text available: [pdf\(4.21 MB\)](#)


 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial communication ...

4 [Database Reorganization—Principles and Practice](#)


 Gary H. Sockut, Robert P. Goldberg
December 1979 **ACM Computing Surveys (CSUR)**, Volume 11 Issue 4

Publisher: ACM Press

Full text available:  [pdf\(1.89 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

5 Research papers: data cleaning and mapping: A cost-based model and effective heuristic for repairing constraints by value modification

 Philip Bohannon, Wenfei Fan, Michael Flaster, Rajeev Rastogi

June 2005 **Proceedings of the 2005 ACM SIGMOD international conference on Management of data S: '05**


Publisher: ACM Press

Full text available:  [pdf\(565.83 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)


Data integrated from multiple sources may contain inconsistencies that violate integrity constraints. The *constraint repair problem* attempts to find "low cost" changes that, when applied, will cause the constraints to be satisfied. In most previous work repair cost is stated in terms of tuple insertions and deletions, we follow recent work to database repair as a set of *value modifications*. In this context, we introduce a novel cost framework that allow appl ...

6 Consistency and orderability: semantics-based correctness criteria for databases

 Divyakant Agrawal, Amr El Abbadi, Ambuj K. Singh

September 1993 **ACM Transactions on Database Systems (TODS)**, Volume 18 Issue 3

Publisher: ACM Press

Full text available:  [pdf\(1.92 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The semantics of objects and transactions in database systems are investigated. User-defined predicates called consistency assertions are used to specify user programs. Three new correctness criteria are proposed. The first correctness criterion consistency is based solely on the users' specifications and admit nonserializable execution are acceptable to the users. Integrity constraints of the database are maintained through consistency assertions.

Keywords: concurrency control, object-oriented databases, semantics, serializability theory

7 Sequencing XML data and query twigs for fast pattern matching

 Praveen Rao, Bongki Moon

March 2006 **ACM Transactions on Database Systems (TODS)**, Volume 31 Issue 1

Publisher: ACM Press


Full text available:  [pdf\(582.09 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We propose a new way of indexing XML documents and processing twig patterns in an XML database. Every XML document in the database can be transformed into a sequence of labels by Prüfer's method that constructs a one-to-one correspondence between trees and sequences. During query processing, a twig pattern is also transformed into a Prüfer sequence. By performing subsequence matching on the set of sequences in the database and performing refinement phases that we have developed.


Keywords: XML indexing, Prüfer sequences, twig query processing

8 A prototype implementation of the SQL Ada module extension (SAME) method

 Allison LeClair, Susan Phillips

December 1990 **Proceedings of the conference on TRI-ADA '90 TRI-Ada '90**

Publisher: ACM Press

Full text available:  [pdf\(1.20 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

As Ada becomes more widespread, the ability to access commercial database technologies through Ada system becomes a significant issue. Researchers throughout our industry are investigating interface approaches between

and these technologies, including language bindings between Ada and SQL, a relational data base language. TI presents a recent implementation of one such binding—the SQL Ada Module Extension (SAME) method.

9 Answering queries using materialized views with minimum size

Rada Chirkova, Chen Li, Jia Li

September 2006 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 15 Issue 3

Publisher: Springer-Verlag New York, Inc.

Full text available:  [pdf\(540.69 KB\)](#)

Additional Information: [full citation](#), [abstract](#)

In this paper, we study the following problem. Given a database and a set of queries, we want to find a set of that can compute the answers to the queries, such that the amount of space, in bytes, required to store the vi minimum on the given database. (We also handle problem instances where the input has a set of database ins as described by an oracle that returns the sizes of view relations for given view definitions.) This problem is ir for applications such ...


Keywords: Data warehouses, Distributed systems, Minimum-size viewsets, Views

10 Anatomy of a native XML base management system

T. Fiebig, S. Helmer, C.-C. Kanne, G. Moerkotte, J. Neumann, R. Schiele, T. Westmann

December 2002 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 11 Issue 4

Publisher: Springer-Verlag New York, Inc.

Full text available:  [pdf\(300.97 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

Several alternatives to manage large XML document collections exist, ranging from file systems over relational database systems to specifically tailored XML base management systems. In this paper we give a tour of Natix database management system designed from scratch for storing and processing XML data. Contrary to the cor belief that management of XML data is just another application for traditional databases like relational systems: illustrate how almost every component in a ...

Keywords: Database, XML

11 Concurrency control: methods, performance, and analysis

 Alexander Thomasian

March 1998 **ACM Computing Surveys (CSUR)**, Volume 30 Issue 1

Publisher: ACM Press

Full text available:  [pdf\(427.18 KB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: Markov chains, adaptive methods, concurrency control, data contention, deadlocks, flow diagrams control, optimistic concurrency control, queueing network models, restart-oriented locking methods, serializa thrashing, two-phase locking, two-phase processing, wait depth limited methods

12 Privacy, string search: Privacy preserving sequential pattern mining in distributed databases

 V. Kapoor, P. Poncelet, F. Troussset, M. Teisseire

November 2006 **Proceedings of the 15th ACM international conference on Information and knowledge management CIKM '06**

Publisher: ACM Press

Full text available:  [pdf\(254.20 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


Research in the areas of privacy preserving techniques in databases and subsequently in privacy enhancement technologies have witnessed an explosive growth-spurt in recent years. This escalation has been fueled by the mistrust of individuals towards organizations collecting and disbursing their Personally Identifiable Information Digital repositories have become increasingly susceptible to intentional or unintentional abuse, resulting in organizations to be liable under the privac ...

Keywords: privacy mining

13 Cost and availability tradeoffs in replicated data concurrency control

 Akhil Kumar, Arie Segev
March 1993 **ACM Transactions on Database Systems (TODS)**, Volume 18 Issue 1


Publisher: ACM Press

Full text available:  [pdf\(2.04 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)

Keywords: availability, replicated database

14 Data structures for efficient broker implementation

 Anthony Tomasic, Luis Gravano, Calvin Lue, Peter Schwarz, Laura Haas
July 1997 **ACM Transactions on Information Systems (TOIS)**, Volume 15 Issue 3

Publisher: ACM Press

Full text available:  [pdf\(316.45 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

With the profusion of text databases on the Internet, it is becoming increasingly hard to find the most useful data for a given query. To attack this problem, several existing and proposed systems employ brokers to direct use using a local database of summary information about the available databases. This summary information must effectively distinguish relevant databases and must be compact while allowing efficient access. We offer evidence for one broker, GIOSS

Keywords: GIOSS, broker architecture, broker performance, distributed information, grid files, partitioned ha

15 Topology matching for fully automatic similarity estimation of 3D shapes

 Masaki Hilaga, Yoshihisa Shinagawa, Taku Kohmura, Toshiyasu L. Kunii
August 2001 **Proceedings of the 28th annual conference on Computer graphics and interactive techniques SIGGRAPH '01**

Publisher: ACM Press

Full text available:  [pdf\(463.27 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


There is a growing need to be able to accurately and efficiently search visual data sets, and in particular, 3D shape data sets. This paper proposes a novel technique, called *Topology Matching*, in which similarity between polyhedral shapes is quickly, accurately, and automatically calculated by comparing Multiresolutional Reeb Graphs (MRGs). The MRG operates well as a search key for 3D shape data sets. In particular, the MRG represents the skeletal and topological structure of a 3D shape.

Keywords: 3D search, computer vision, shape recognition

16 A distributed object-oriented database system supporting shared and private databases

 Won Kim, Nat Ballou, Jorge F. Garza, Darrell Woelk
January 1991 **ACM Transactions on Information Systems (TOIS)**, Volume 9 Issue 1

Publisher: ACM Press



Full text available:  [pdf\(1.58 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

ORION-2 is a commercially available, federated, object-oriented database management system designed and implemented at MCC. One major architectural innovation in ORION-2 is the coexistence of a shared database and a number of private databases. The shared database is accessible to all authorized users of the system, while each private database is accessible to only the user who owns it. A distributed database system with a shared database and private databases for individual users is a natural extension of a centralized database system.



Keywords: client-server architecture, federated databases, object-oriented databases

17 Case-based reasoning: A comparative evaluation of name-matching algorithms

 L. Karl Branting
June 2003 **Proceedings of the 9th international conference on Artificial intelligence and law ICAIL '0:**
Publisher: ACM Press
Full text available:  [pdf\(233.90 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

Name matching---recognizing when two different strings are likely to denote the same entity---is an important many legal information systems, such as case-management systems. The naming conventions peculiar to legal limit the effectiveness of generic approximate string-matching algorithms in this task. This paper proposes a three stage framework for name matching, identifies how each stage in the framework addresses the naming variations typically arise in legal cases, describes ...

18 Pervasive Documentation Systems I: Concept and architecture of an pervasive document editing and management system

 Stefania Leone, Thomas B. Hodel, Harald Gall
September 2005 **Proceedings of the 23rd annual international conference on Design of communication: documenting & designing for pervasive information SIGDOC '05**
Publisher: ACM Press
Full text available:  [pdf\(489.38 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Collaborative document processing has been addressed by many approaches so far, most of which focus on document versioning and collaborative editing. We address this issue from a different angle and describe the concept and architecture of a pervasive document editing and managing system. It exploits database techniques and real-time updating for sophisticated collaboration scenarios on multiple devices. Each user is always served with up-to-date documents and can organize his work based on documents ...


Keywords: collaborative document, computer supported collaborative work (CSCW), pervasive document editing management system

19 A method for specializing logic programs

 A. Bossi, N. Cocco, S. Dulli
April 1990 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 12 Issue 2
Publisher: ACM Press
Full text available:  [pdf\(3.30 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

A specialization method for logic programs that allows one to restrict a general program to special cases by means of constraint predicates is presented. A set of basic transformation operations, which are shown to produce equivalent programs, is defined. The method uses these operations for propagating the constraint information through the program and for consequently simplifying it whenever possible. Some examples of specializations are given, along with improvements and developments of the ...





20 Experience with SAND-Tcl: a scripting tool for spatial databases

Claudio Esperança, Hanan Samet
May 2000 **Proceedings of the 2000 annual national conference on Digital government research dg.o**
Publisher: Digital Government Research Center
Full text available:  [pdf\(507.73 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

The use of scripting makes it possible to overcome many important difficulties in the development of database applications. By extending a general-purpose scripting language with constructs derived both from the database and from the intended application domain, issues such as query processing and user interfacing can be approached in an economical and flexible way. This is illustrated by describing our experience with *SAND-Tcl*, a scripting tool developed by us for building spatial ...

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